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SHURE MICROPHONES AND ELECTRONIC COMPONENTS
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STEREO MODELS VN35E, VN3-G AND MONOPHONIC MODEL VN78E SUPER-TRACK "PLUS" STEREO DYNETIC® STYLI

Stereo Dynetic DIAMOND STYLI

V15 Type III

THE MODELS VN35E, VN3-G, AND VN78E ARE DIAMOND STYLI FOR THE MODEL V-15 TYPE III CARTRIDGES.

The Model VN35E Stylus (grip color-black) has a Biradial (Elliptical) Diamond Tip constructed with a broad frontal plane radius of 18 microns (.0007 in.) while the side contact radii are 5 microns (.0002 in.) and the spacing between the record contact points is 25 microns (.001 in.).

The Model VN3-G Stylus (grip color-gray) is constructed like the VN35E, except the diamond tip has a spherical shape with a radius of 15 microns (.0006 in.)

The Model VN78E Stylus (grip color-light green) has a Biradial (Elliptical) Diamond Tip designed for playback of monophonic 78 rpm records. The broad frontal plane radius is 63 microns (.0025), while the side contact radii are 13 microns (.0005 in.). The spacing between the record contact points is 89 microns (.0035 in.) When using the VN78E, the amplifier should be set to "A+B" or "MONO." The use of a VN78E will provide a significant improvement in the reproduction of older 78 rpm records over conventional 63 micron (.0025 in.) to 75 micron (.003 in.) spherical tips.

NOTE—A small .8 gram weight has been added to the molded grip of the VN78E Stylus Assembly, allowing it to be substituted for a VN35E or VN3-G. Without altering the tracking force setting on the tone arm, the proper tracking force for 78 rpm records will be achieved. For example, a V15 Type III tracking at .75 grams and using a VN35E or VN3-G Stylus would automatically track at 1.55 grams when a VN78E Stylus was substituted. If the V15 Type III were tracking at 1.25 grams, the substitution of a VN78E would change the tracking force to 2.05 grams. If tracking forces greater than 2.05 grams are required for playing 78 rpm records, a manual tracking force adjustment must be made on the tone arm; however, allowance should be made for the additional .8 gram weight contained in the VN78E Stylus.

The major feature of these styli is their superior TRACKABILITY. Because of it, all records will sound better, and in fact you will hear some recordings tracked for the first time without distortion. The V15 Type III Cartridge has the following specifications with the styli noted.

TRACKING FORCE RANGE:

VN35E and VN3-G	¾ to 1¼ grams
VN78E	1½ to 3 grams

NOTE—Do not exceed maximum rated tracking force.

TRACKABILITY: In Shure-SME Tone Arm with VN35E and VN3-G at 1 gram (Reference: Shure TTR103 Laboratory Test Record)

400 Hz	26 cm/sec
1,000 Hz	38 cm/sec
5,000 Hz	35 cm/sec
10,000 Hz	26 cm/sec

FREQUENCY RESPONSE (using optimum load): 10 to 25,000 Hz

OUTPUT VOLTAGE (at 1,000 Hz, 5 cm/sec peak recorded velocity):

3.5 mV per channel — VN35E, VN3G, VN78E
(Output voltages given for stereo cut record. For MONO cut record, output voltage at both left channel and right channel cartridge terminals will be 71% of figure above.)

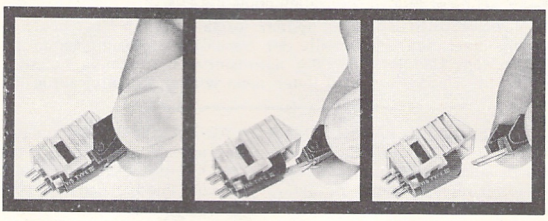
CHANNEL BALANCE: Within 2 dB

CHANNEL SEPARATION (minimum):

25 dB at 1,000 Hz
15 dB at 10,000 Hz

NOTE—The Shure Biradial (Elliptical) Stylus has certain advantages:

1. It drastically reduces tracing distortion because the elliptical shape more closely follows the groove made by the wedge-shaped cutting stylus. This means that the line passing through the contact points coincides with the line of contact of the cutting stylus more closely than that of a spherical stylus.
2. It supplies the most accurate reproduction of the musical information stored in the record groove. The VN35E Stylus provides optimum playback of stereo, 4-channel matrix, and monophonic LP records; the VN78E provides optimum playback, with minimum surface noise and distortion, of older wide-groove records such as 78s.



STYLUS REPLACEMENT

Stylus replacement is very simple and fast. To replace—grasp stylus guard between thumb and forefinger. Gently withdraw stylus by pulling forward out of cartridge. Grasp guard of replacement stylus between thumb and forefinger and insert into stylus socket. Press stylus into socket until the molded housing of the stylus touches the cartridge case. Care must be taken not to allow the finger to slip off the stylus guard, as this could result in damage to the stylus tip or shank.

The stylus assembly, when installed in the cartridge, is practically immune to damage during normal usage. However, because of the delicate low mass components, extra care should be taken to avoid bending or distorting the stylus assembly when it is installed, removed, or cleaned.

RECOMMENDED STYLUS CLEANING: Use a camel's hair brush (No. 2 size or smaller), trimmed to approximately 6 mm (¼ in.), dipped in alcohol or an alcohol-distilled water solution. Commercial cleaning solutions may cause stylus damage or corrosion. Always brush stylus from back to front, never brush or wipe stylus from front to back or side to side.

TO PRESERVE STYLUS LIFE:

1. Follow turntable or tone arm instructions when adjusting antiskating force.
2. Do not handle the tone arm while it is in operation, since this may cause the arm to sweep across the record.
3. If it is necessary to manually place the tone arm in the record groove while turntable is rotating, release it as soon as the stylus engages the record groove.
4. Correct improper set-down adjustment or malfunction of the turntable changing mechanism to prevent the stylus from striking the edge of the turntable or record. Do not stack more records than the turntable manufacturer recommends.
5. Take care to properly insert the stylus into the cartridge assembly and the cartridge and shell assembly into the tone arm receptacle.
6. Use proper vertical tracking force setting for each cartridge.
7. Do not use badly warped, cracked, or imperfect records.
8. When dusting the turntable protect the stylus with the stylus guard.

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SPECIAL NOTE: To maintain the original performance standards of your cartridge, be certain that any replacement stylus you buy bears the following certification on the package: "This Stereo Dynetic® stylus is precision manufactured by Shure Brothers Inc." AVOID INFERIOR IMITATIONS. THEY WILL SERIOUSLY DEGRADE THE PERFORMANCE OF YOUR CARTRIDGE. ALL GENUINE DYNETIC® STYLI ARE MANUFACTURED BY SHURE BROTHERS INC. LOOK FOR THE NAME SHURE ON THE STYLUS GRIP. **For more information on your Shure stylus, write for booklet: "A Visit to the Small World of a Stylus."**

QUALITY ASSURANCE

The Shure Stereo Dynetic Stylus has been manufactured under the Shure Master Quality Control Program. This program embraces stringent safeguards and standards to assure that your stylus is in perfect operating condition.

Shure quality control not only covers incoming parts and the finished product, but intermediate subassemblies as well. For example: every Stylus-Magnet Assembly is tested and microscopically examined. Each finished stylus is again tested electrically, mechanically and acoustically against quality and tolerance specifications seldom achieved in the High Fidelity industry.

GUARANTEE: This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from the date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor. This guarantee does not include stylus wear.

SHIPPING INSTRUCTIONS: Carefully repack the unit and return it prepaid to the factory. If outside the United States, return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.

Patent Notice: Manufactured under one or more of the following U.S. Patents: 3,055,988, 3,077,521, 3,077,522 and 3,463,889. Other patents pending.

RECOMMANDATIONS POUR LE NETTOYAGE DE LA POINTE: Utilisez une brosse douce, à poils de 6 mm. de long, humectée d'alcool pur ou dilué. Les liquides de nettoyage vendus dans le commerce peuvent endommager ou corroder la pointe. Brossez toujours d'arrière en avant.

POUR PRESERVER LA VIE DE VOTRE DIAMANT:

1. Réglez la compensation de poussée latérale (antiskating) du bras suivant les instructions du fabricant.
2. Evitez de toucher le bras de pickup pendant le fonctionnement.
3. Si vous devez placer manuellement le bras sur un sillon du disque pendant que la plateau tourne, relâchez le bras dès que la pointe touche le sillon.
4. Réglez la descente du bras pour éviter que la pointe puisse heurter le bord du plateau ou du disque.
5. Evitez d'endommager la pointe lectrice pendant son montage dans le cellule ou le montage de la cellule elle-même.
6. Utilisez une force d'appui convenable.
7. N'utilisez pas de disques très rayés ou endommagés.
8. Protégez la pointe pendant le nettoyage de la platine.

REMARQUE: Assurez-vous que tout diamant de remplacement que vous achetez porte la garantie suivante sur son emballage: "This Stereo Dynetic® stylus is precision manufactured by Shure Brothers Inc." EVITEZ LES IMITATIONS DE QUALITE INFERIEURE. ELLES DETRUIRONT LE RENDEMENT DE VOTRE CELLULE. CHERCHEZ LE NOM DE SHURE SUR LE SUPPORT DE POINTE EN PLASTIQUE. Pour de plus amples renseignements sur les pointes de lecture Shure, écrivez demander la brochure "A Visit to the Small World of a Stylus."

GARANTIE: Ce produit Shure est garanti, en utilisation normale, de tout défaut électrique ou mécanique, pour la durée d'un an à partir de l'achat. Conservez votre preuve d'achat. Cette garantie comprend toutes pièces et main d'oeuvre; elle ne couvre pas l'usage normal du diamant.

EXPEDITION: Ré-emballez soigneusement et renvoyez la cellule à l'usine en port payé. En dehors des U.S.A., renvoyez la cellule à votre vendeur ou au représentant officiel Shure. Elle vous sera renvoyée dès que possible en port payé.

REINIGUNG DES ABTASTSTIFTES: Zur Reinigung des Abtaststiftes wird eine Kamelhaarbürste empfohlen (Borstenlänge ca. 6 mm), die vorher in Alkohol oder Spiritus getaucht wurde. Handelsübliche Reinigungsmittel können Korrosion verursachen oder sogar zur Zerstörung des Abtaststifteinschubs führen. Die Bürste stets von hinten nach vorne bewegen.

HINWEIS ZUR ERHÖHUNG DER LEBENSDAUER DES ABTASTSTIFTES:

1. Antiskating-Einstellung nach Herstellerangaben justieren.
2. Bei Automatik-Plattenspielern sollte der Tonarm während des Betriebes niemals berührt werden.
3. Muß der Tonarm manuell, also von Hand geführt werden, sollte er so vorsichtig wie möglich auf die Platte aufgesetzt werden.
4. Achten Sie beim Aufsetzen des Tonarms darauf, daß der Abtaststift nie den Plattenteller oder die Kante der Schallplatte berührt.
5. Besondere Sorgfalt ist beim Einsetzen des System-Einschubs und des Systems geboten.
6. Kontrollieren Sie von Zeit zu Zeit die Auflagekraft des Tonarms.
7. Keine stark abgenutzten, gewellten oder zerkratzten Platten abspielen.
8. Beim Reinigen des Plattenspielers den Abtaststift vorsorglich durch Herunterklappen des Visiers vor Beschädigung schützen.

BESONDERER HINWEIS: Um die gewohnt gute Wiedergabe Ihres Systems nicht zu vermindern, sollten Sie bei der Nachbestückung des System-Einschubs unbedingt auf einen Original SHURE-Abtaststift bestehen. Achten Sie auf die Aufschrift "This Stereo Dynetic® Stylus is precision manufactured by Shure Brothers Inc." auf der Verpackung. LEHNEN SIE MINDERWERTIGE IMITATIONEN AB! ERHEBLICHE KLANGMINDERUNG ODER BESCHÄDIGUNG DER SCHALLPLATTEN KÖNNEN DIE FOLGE SEIN. ACHTEN SIE AUF DEN NAMEN SHURE AN DEM KUNSTOFFTEIL DES SYSTEM-EINSCHUBS. Fordern Sie die kostenlose Broschüre "Ausflug in die Mikrowelt eines System-Einschubs" an.

GARANTIE: Auf dieses Shure Erzeugnis leisten wir unter normalem Gebrauch eine einjährige Garantie gegen elektrische und mechanische Fabrikationsfehler vom Kaufdatum an gerechnet. Bewahren Sie bitte den Beweis des Kaufdatums auf. Diese Garantie erstreckt sich auf alle Ersatzteile und Arbeitslöhne. Sie schliesst jedoch die Nadelabnutzung aus.

VERSANDANWEISUNGEN: Das System sorgfältig wieder verpacken und an die Fabrik einsenden. Außerhalb der Vereinigten Staaten sende man das System an den Händler oder das autorisierte Shure Service Zentrum zur Reparatur ein. Das System wird Ihnen dann wieder portofrei zurückgesandt.

RECOMENDACIONES PARA LIMPIAR LA AGUJA (PÚA): Usar un pincel de pelo de camello de 6 mm. de largo, humedecido en alcohol etílico o en una mezcla de alcohol y agua. Evitar el uso de líquidos que se venden en los comercios para la limpieza de agujas y discos. Pueden dañar o corroer la aguja. Siempre limpiar la aguja de atrás hacia adelante.

PARA CONSERVAR EL USO DE LA AGUJA:

1. Ajustar la fuerza antipatinadora de acuerdo con las instrucciones del fabricante.
2. Evitar mover el brazo cuando esté funcionando.
3. Si es necesario manipular el brazo en el surco del disco mientras la tornamesa gira, soltarlo tan pronto la aguja haga contacto con el surco.
4. Ajustar el mecanismo del brazo para evitar que la aguja choque con el borde del disco o tornamesa.
5. Evitar dañar la aguja cuando se instale la cápsula o se reemplace la aguja.
6. Usar la fuerza de apoyo debida.
7. No usar discos que estén rajados, doblados o con imperfecciones.
8. Proteger la aguja con su visera cuando se limpie el tornamesa.

NOTA ESPECIAL: Para que la calidad original de la cápsula se conserve, asegurarse al comprar una nueva aguja que ésta lleve la siguiente certificación en su estuche: "This Stereo Dynetic® stylus is precision manufactured by Shure Brothers Inc." EVITE IMITACIONES, PUEDEN REDUCIR SERIAMENTE LA CALIDAD DE LA CÁPSULA. TODAS LAS AGUJAS "DYNETIC" AUTÉNTICAS ESTÁN FABRICADAS POR SHURE BROTHERS INC. BUSQUE POR EL NOMBRE SHURE EN EL MANGO DE LA AGUJA. Para más información sobre su aguja Shure, favor de pedirnos el panfleto "A Visit to the Small World of a Stylus."

GARANTIA: Este producto Shure se garantiza en su uso normal como un producto libre de defectos eléctricos y mecánicos por un período de ún año desde la fecha de su compra. Sírvase conservar la prueba de la fecha de la compra. Esta garantía incluye todas las partes y la mano de obra. Esta garantía no incluye el desgaste de la aguja.

INSTRUCCIONES DE EMBARQUE: Empáquelo de nuevo con cuidado y devuelva el artículo a la fábrica. Si está fuera de los Estados Unidos, devuelva el artículo a su distribuidor o a su Centro de Servicio Shure para su reparación. El artículo será devuelto a usted con gastos pagados por adelantado.